Tape 15-18
3029 bytes

DROP DOWN MENUS (QL program)

by Al Feng

Most of us have seen them. They generally look good. And, no, I'm not talking about the models in the SPORTS ILLUSTRATED's annual "swim suit" issue. I'm referring to DROP-DOWN MENUs and POP-UP WINDOWs. In the former instance, the menu windows appear to DROP DOWN (get it?) from a COMMAND LINE located near the top of the screen. In the latter case, they're more like dandelions which POP UP in an otherwise green lawn, often appearing in a rather hap-hazard fashion. In either case, you are generally presented with a limited number of immediately accessible options from which you may choose.

The reason that many programs do NOT use drop-down or pop-up windows is simply because circumstances don't always warrant it. A simple BOOT program only has to EXECute the principal program. In other cases, there may only be two or three options. On the other hand, a reason to use multiple menus might be to present the end-user with "types" of options which have been segregated (grouped) by the program(mer).

One of the many nice features about the QL is the ability to create multiple WINDOWs. However, the direct ability to create multiple WINDOWs is not necessary for generating a screen with drop-down menus, it just makes it a bit easier. The alternative would be to use the QL's BLOCKing abilities ('BLOCK' is used in this program merely to CLEAR the menu(s) from the screen; but it could just as easily be implemented for the actual menus).

The "opening screen" will present you with a "white" screen with a command line near the top similar to the illustration (below). The following program has three drop-down windows. When this screen is first seen, "FILES" will be highlighted with a colored bar, and the letters of the option name in white.

```
------------------------------------------------------------------------
   FILES   OPTIONS   PRINTER_INFO            @ PLATYPUS Software
------------------------------------------------------------------------
```

2 line feeds needs fixed

The highlighted bar is moved either to the right or left by pressing the 'TAB' key or using a 'shift TAB' key combination, respectively.

The "FILES" menu allows for individual LOADing of any of the Psion Business programs (eg., Quill, etc.), or initiating a multi-TASKing environment (in this instance, TASKMASTER). The "OPTIONS" menu is used here as a "help" page. "PRINTER_INFO" is a variation of a routine from the QUANTA library which allows for changing the printer_dat.

When you QUIT any of the Psion programs, you will be returned to the opening screen. Proceed as appropriate.

You may find, after QUITing a program, that you have a blank screen. If this happens, use a 'shift F5' key combination to restore the screen. If you use a multi-TASKing environment, you should suspend SuperBASIC by pressing 'esc' until the CURSOR appears otherwise, SuperBASIC will be treated as an active TASK by whatever environment you are in and slow the screen, et al, of the other EXEC'd tasks (Type "START" to re-start.)

(To be continued)

Гарое 20ᴗ 28   7676 bytes

DROP-DOWN MENUS---part II>11=70

```
    100 WINDOW#0,450,52,42,200:PAPER#0,7:INK#0,0
    110 WINDOW#1,512,256,0,0:PAPER#1,7:INK#1,0:CLS
    120 WINDOW#2,512,256,0,0:PAPER#2,7:INK#2,0
    130 REMark ss=RESPR(10070):LBYTES flp1_zip_code,ss:CALL ss:
        _SCROLL 20
    140 REMark ram=RESPR(5120):LBYTES flp1_dram_code,ram:CALL
ram:
        PRINT#0,"Dynamic RAM Disking"
    150 REMark tk=RESPR(6144):LBYTES flp1_turbo_code,tk:CALL tk
    160 REMark base=RESPR(43992):LBYTES flp1_boot_rext,base:CALL
        base:HOTKEY
    170 DIM print1$(12),print2$(12),print3$(12),dev$(8)
    180
dev$="flp1_":PROGram$="QLUSTer":VERsion$="4r089":fenetre=0:
        CLS:CLS#2:Start
    190 DEFine PROCedure Start:CLS:INK 0
     200 LINE 0,96.5 TO 512,96.5
    210 CMD_LINE
    220 LINE 0,92   TO 512,92
    230 BEEP 200,20:FILE
    240 END DEFine Start
    250 DEFine PROCedure CMD_LINE
    260 Kbytes=(PEEK_L(163856)-PEEK_L(163852)-1024)/1024
    270 AT 1,7:STRIP 7:INK 0
    275 PRINT" FILES   OPTIONS   PRINTER_INFO ";   280 INK
5:PRINT,,,'  @  PLATYPUS Software':INK 0
    290 END DEFine CMD_LINE
    300 Key3:PickOneOfTheseOptions
    310 DEFine PROCedure Key3
    320 REPeat key
    330 keystrike=CODE(INKEY$)
    340 keystrike=69  THEN EXIT key
    350 IF keystrike=101 THEN EXIT key
    360 IF keystrike=232 THEN EXIT key
    370 IF keystrike=236 THEN EXIT key
    380 IF keystrike=240 THEN EXIT key
    390 IF keystrike=244 THEN EXIT key
    400 IF keystrike=248 THEN EXIT key
    410 IF keystrike=250 THEN EXIT key
    420 IF keystrike<236 AND keystrike>116 THEN BEEP 900,40:Key3
    430 IF keystrike=116 OR keystrike=84 THEN EXIT key
    440 IF keystrike<116 AND keystrike>84 THEN BEEP 900,40:Key3
    450 IF keystrike<84 AND keystrike>27 THEN BEEP 900,40:Key3
    460 IF keystrike=253 OR keystrike=9 THEN EXIT key
    470 IF keystrike=27 THEN CLS:BEEP 900,20:STRIP 7:INK 0:AT
24,32:
        PRINT'@  PLATYPUS Software':EXIT key
    480 END REPeat key:END DEFine Key3
    490 DEFine PROCedure PickOneOfTheseOptions
    500 IF keystrike = 250 THEN BEEP 900,20:Start
    510 IF keystrike = 253 THEN BEEP 900,20:PrevWindow
    520 IF keystrike = 9 THEN BEEP 200,10:NextWindow
    530 END DEFine PickOneOfTheseOptions
    540 DEFine PROCedure NextWindow
    550 BLOCK 500,200,0,21,7:fenetre=fenetre+1:IF fenetre=3 THEN
        fenetre=0
    560 WindowChoice
    570 END DEFine NextWindow
    580 DEFine PROCedure PrevWindow
    590 BLOCK 500,200,0,21,7:fenetre=fenetre-1:IF fenetre<0 THEN
        fenetre=2
    600 WindowChoice
    610 END DEFine PrevWindow
    620 DEFine PROCedure WindowChoice
    630 IF fenetre = 0 THEN FILE
    640 IF fenetre = 1 THEN OPTIONS
    650 IF fenetre = 2 THEN PRINTER
    660 END DEFine WindowChoice
    670 DEFine PROCedure PRINTER
    680 CMD_LINE:AT 1,26:STRIP 5:INK 7:PRINT"PRINTER_INFO"
    690 OPEN#5,scr_220x80a156x20:PAPER#5,7:
    700 BORDER#5,1,0:INK#5,0:CLS#5
    710 print1$="PR2300":print2$="IBM.W5":print3$="PR2300"
    720 STRIP#5,5:PRINT#5,TO 5;"Select
";:INK#5,7:PRINT#5,"Quill";:
        INK #5,0:PRINT#5,"printer driver ":STRIP #5,7:INK #5,0
    730 PRINT#5,\"  [F1] = "&print2$&" / single sheet"
    740 PRINT#5, "  [F2] = "&print3$&" / single sheet"
    750 PRINT#5, "  [F3] = "&print1$&" / continuous feed"
    760 INK#5,5:PRINT#5,\"  [F5] = What_Was_That_Printer_dat?".
    770 Key3:PickOneOfTheseOptions
    780 SELect ON keystike
    790 =248:PAPER#5,0:CLS#5:PRINT #5,TO 8;"CaNyoUReaDTHiS?";:INK
#5,7
        :PRINT #5\\\\\\\\ TO 6;"HIT <Any Key> to CONTINUE":COPY
dev$&
        "printer_dat" TO con_220x58a158x30:BEEP
200,20:PAUSE:PRINTER
    800 =232:DELETE dev$&"printer_dat": COPY dev$&print2$&"_dat"
TO
        dev$&"printer_dat"
    810 =236:DELETE dev$&"printer_dat":COPY dev$&print3$&"_alt"
TO
        dev$&"printer_dat"
    820 =240:DELETE dev$&"printer_dat": COPY dev$&print1$&"_dat"
TO
        dev$&"printer_dat"
    830 END SELect
    840 END DEFine PRINTER
    860 DEFine PROCedure FILE
    870 CMD_LINE:AT 1,7:STRIP 5:INK 7:PRINT" FILES "
    880 OPEN#6,scr_106x132a42x20:PAPER#6,7
    885 BORDER#6,1,0:INK#6,0:CLS#6
    890 PRINT#6,\" [F1] = Quill"
    900 PRINT#6,\" [F2] = Archive"
```

```
   910 PRINT#6,\" [F3] = Abacus"
   920 PRINT#6,\" [F4] = Easel"
   930 PRINT#6,\" [F5] = ";:INK#6,37:PRINT#6,PROGram$
   940 STRIP#6,5:INK#6,2:PRINT#6,\"
[";:INK#6,7:PRINT#6,"E";:INK
#6,2:PRINT#6,"]";:INK#6,0:PRINT#6,"ditor      "
   950 STRIP#6,0:INK#6,2:PRINT#6,"  [";:INK#6,7:PRINT#6,"T";:
INK#6,2
       :PRINT#6,"]";:INK#6,5:PRINT#6,"askMaster    "
   960 Key3:PickOneOfTheseOptions
   970 YourChoice=keystrike
   980 SELect ON YourChoice
   990 =232:EXEC_W dev$&"quill":GO TO 170
  1000 =236:EXEC_W dev$&"archive":GO TO 170
  1010 =240:EXEC_W dev$&"abacus":GO TO 170
  1020 =244:EXEC_W dev$&"easel":GO TO 170
  1030 =248:EXEC_W dev$&PROGram$&VERsion$:GO TO 170
  1040 = 69:editor:GO TO 170
  1050 =101:editor:GO TO 170
  1060 = 84:TASK_bot
  1070 =116:TASK_bot
  1080 END SELect: END DEFine FILE
  1100 DEFine PROCedure editor:EXEC dev$&"editor":END DEFine
  1110 DEFine PROCedure OPTIONS
  1120 CMD_LINE:AT 1,15:STRIP 5:INK 7:PRINT" OPTIONS "
  1130 OPEN#7,scr_172x112a90x20:PAPER#7,7
  1135 BORDER#7,1,0:INK#7,7:CLS#7
  1140 STRIP#7,0:AT#7,0,16:PRINT#7,"       ":AT#7,0,0:PRINT
#7,TO
       7;Kbytes;" Kilobytes ";:STRIP#7,7
  1150 INK#7,0:PRINT#7,\\"   EXEC_W:";:INK#7,2: PRINT#7," Psion
       programs"
  1160 INK #7,2:PRINT #7,TO 12;PROGram$&" " &VERsion$\\TO
5;"EXEC:
       EDITOR "
  1170 STRIP #7,7:INK #7,0:PRINT #7,\"    CHECK: ";:INK #7,5:
PRINT
       #7," Printer_dat"
  1180 INK #7,7:STRIP #7,5:PRINT #7,\" shft[F5]";:INK #7,0:
PRINT
       #7,":  Restore screen  ";
  1190 STRIP#7,2:INK#7,7:PRINT#7,\"    (esc):  QUIT "
  1200 Key3:PickOneOfTheseOptions
  1210 END DEFine OPTIONS
  1220 DEFine PROCedure TASK_bot
  1240 REMark ("RENUM 2000" your TASKMASTER BOOT, SAVE IT, and
then
       MERGE it to the end of the rest of the program LISTing as
a
       DEFined PROCedure ... )
  1290 CALL base+total, base+total+10000:CLS:Start:END DEFine
  1300 REMark****** @ PLATYPUS Software (1989) ******
```

The various DEFined PROCedures do the following (more or less):

Start	CLears Screen, calls CMD_LINE procedure
CMD_LINE	establishes COMMAND LINE
Key3	(in)validates key inputs
PickOneOfThese	Reads key input, selects bar direction
NextWindow	moves the highlighted bar to the right
PrevWindow	moves the highlghted bar to the left
WindowChoice	interprets NextWindow/PrevWindow and initiates appropriate DEFined PROCedure
PRINTER	allows you to see or change the printer_dat which will be accessed by Quill
FILE	allows you to LOAD various programs
OPTIONS	a help page
TASK_bot	the TASKMASTER BOOT data should be inserted (MERGEd) here (if you have it).

Lines 100 to 120 determine WINDOW size, PAPER & INK color(s).
Lines 130 to 160 are RESident PRocedures which may be omitted or activated from the LISTing as appropriate. Line 170 is also optional, and merely establishes the maximum size of various strings used.
Line 180 determines strings/variables. Calls first DEFined PROCedure ("Start").
Line 300 initiates the two PROCedures which interpret the key inputs.
If you don't have a program editor, then you may omit line 940, 1040, 1050, 1100 and the last half of line 1160. Of course, you probably use different printers. Rename the specific printer_dat(s) as appropriate to your sitiuation (eg., DAISY_dat, MATRX_dat, LASER_dat).

HAPPY TRAILS (and, COMPUTING) TO YOU! N